

WHAT IS CLAIMED IS:

1. A liquid discharge cartridge comprising:
a recording head provided with a liquid discharge port for discharging liquid;
- 5 at least one liquid storing chamber for storing liquid to be supplied to said recording head;
a gas-liquid separation member arranged for an opening portion of said liquid storing chamber; and
an atmosphere communication port for enabling
- 10 the inside of said liquid storing chamber to be communicated with the air outside through said gas-liquid separation member, wherein
given the length of each of paths from said gas-liquid separation member to said atmosphere
- 15 communication port as l_n , and the sectional area of each path as s_n , the diffusion resistance R is

$$R = \Sigma (l_n / s_n)$$

Then, the coefficient K calculated on the basis of the liquid evaporation rate not allowing component contained in said liquid to be solidified around said liquid discharge port, said diffusion resistance R , and the amount of liquid evaporation is

$$K = 10,000 \text{ (mg} \cdot \text{mm/mm}^2\text{)}$$

Given the total weight of liquid filled in said liquid storing chamber as V , the following expression is satisfied:

$$K / V < R < 2,000$$